

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5383-04

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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Guardian Terminal Automation System
Models: 65,
Guardian 2 (Version 3.05 and greater), and
Guardian 3 (Release 2004.3.10 Build 2070
and greater)

Card Reader Models: HC05 and HC12

Submitted by:

Dtn Diamond Control
100 Allentown Parkway, Suite 111
Allen, TX 75002
Tel: (888) 682-9128
Fax: ((972) 727-3464
Contact: Travis Diamond

Standard Features and Options

Diamond control systems card reader (mag stripe)

CRT video monitor

RS232/RS422 converter

Printer

Minimum system requirements:

Pentium II 450 or greater
128MB RAM/6GB HD or greater
Internet Explorer 5.0 or greater
Windows NT, 2000, XP, or newer
CD ROM drive or ZIP drive

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: April 6, 2004



Mike Cleary, Director

**Dtn Diamond Control
Guardian Terminal Automation System
Models: 65, Guardian 2, and Guardian 3**

Application: Approved for use as a wholesale terminal automation system. May be used with any certified equipment.

Identification: Each model is identified as follows:

65: An ID tag with the required information shall be attached to all components in the system and must be visible after installation.

Guardian 2: Model designation and software version viewable on Guardian 2 welcome screen. This screen appears after system login is complete, and can be viewed at any time by closing all open Guardian 2 application windows.

Guardian 3: Model designation and software release (version) viewable on Guardian 3 login screen, and at any time by selecting "Help-About" from the main menu bar.

Sealing: The Model 65 audit trail information may be printed. The information contains configuration data.

The Guardian 2 and 3 systems use a Category 3 audit trail to track metrological changes. Printed information contains the following: event counter data, date and time, parameter ID, and API gravity value [entered into the computer for the fuel storage tank which is assigned to the delivery meter(s)].

Accessing audit trail (log) information – Guardian 2 and Guardian 3:

Guardian 2: From the menu bar, select "Activity", then "Audit Log". Press the "Filter ID" button, then enter "WMEDIT" (case sensitive) into the window. Filter will then be applied to all audit log messages, and only the WMEDIT (Weights and Measures Edit) messages will be displayed.

Guardian 3: From the menu bar, select "Activity", then "Audit Log". Enter "WMEDIT" (case sensitive) into the "Filter" window. Filter will then be applied to all audit log messages, and only the WMEDIT (Weights and Measures Edit) messages will be displayed.

Operation: The guardian terminal Model 65, Guardian 2, and Guardian 3 automation systems are separate systems used depending on which operating system is used. These systems monitor loading rack operations, print Bills of Lading (BOLs), reports, and control access via the HC05/HC12 card reader. The metrological functions that are used with the progressively newer operating systems in the Guardian 2 and the Guardian 3 have not changed. These systems acquire the gross meter reading and temperature from the approved wholesale meter. The product delivered from storage tanks has an assigned API value stored in the database of these systems. With this information a net delivery is determined and is printed on the BOL with all other required information.

Test Conditions: This certificate supersedes Certificate of Approval Number 3891-91 and is issued to include Models Guardian 2 and Guardian 3 systems. The Guardian 2 and Guardian 3 systems are the same metrologically as the Model 65 system but are used on newer operating systems. The Guardian 2 system uses Microsoft Windows NT and the Guardian 3 uses Microsoft Windows 2000 and XP operating systems. The systems identification, audit trail, and required printed ticket information (BOL) were reviewed for compliance. The Guardian 3 system was tested in the field to verify no metrological changes were made to the original base system that is still used with the newer operating systems. Previous test conditions are listed below for reference.

Certificate of Approval Number 3891-91: The guardian system was installed at a loading rack terminal for type approval evaluation. After review of information supplied by the manufacturer and data from a field test, the results indicate the system complies with the code requirements.

The results of the evaluations indicate the systems comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2004 Edition

Tested By: R. Malloy (CA) (3891-91), D. Reiswig (CA) [3891(a)-04]